



Performance Data Sheet

RGA5494BXD

General Information

Model	RGA5494BXD	Refrigerant	R-410A
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	2930	2920					
	Watts	544	567					
	Amps	2.69	2.80					
	Lb/h	38.5	37.8					
-10	Btu/h	3430	3340	3260				
	Watts	562	590	619				
	Amps	2.77	2.90	3.03				
	Lb/h	43.8	42.8	41.8				
-5	Btu/h	3990	3830	3680	3530			
	Watts	575	609	643	678			
	Amps	2.82	2.98	3.13	3.29			
	Lb/h	49.8	48.6	47.3	46.1			
0	Btu/h	4620	4390	4170	3950	3720		
	Watts	586	625	665	705	745		
	Amps	2.86	3.04	3.22	3.40	3.58		
	Lb/h	56.5	55.1	53.7	52.1	50.6		
5	Btu/h	5310	5020	4730	4430	4140		
	Watts	593	637	682	728	774		
	Amps	2.89	3.09	3.29	3.49	3.70		
	Lb/h	64.1	62.4	60.7	59.0	57.2		
10	Btu/h	6080	5720	5360	4990	4630	4260	3890
	Watts	596	646	697	748	799	851	904
	Amps	2.91	3.13	3.35	3.57	3.80	4.03	4.26
	Lb/h	72.3	70.5	68.5	66.6	64.6	62.5	60.3
15	Btu/h	6920	6490	6050	5620	5180	4740	4300
	Watts	597	652	708	764	821	878	937
	Amps	2.91	3.15	3.39	3.64	3.89	4.14	4.39
	Lb/h	81.4	79.3	77.1	74.9	72.7	70.4	68.0
20	Btu/h	7830	7330	6820	6310	5810	5300	4790
	Watts	593	654	716	777	840	902	966
	Amps	2.89	3.16	3.42	3.69	3.96	4.23	4.51
	Lb/h	91.2	88.9	86.5	84.0	81.6	79.0	76.4

25	Btu/h	8820	8240	7660	7080	6500	5920	5340
	Watts	587	653	720	787	855	923	992
	Amps	2.87	3.15	3.44	3.73	4.02	4.31	4.61
	Lb/h	102	99.2	96.6	93.9	91.2	88.4	85.6
30	Btu/h	9870	9220	8570	7920	7270	6620	5970
	Watts	577	649	721	794	867	941	1010
	Amps	2.83	3.14	3.45	3.76	4.07	4.38	4.70
	Lb/h	113	110	107	105	102	98.6	95.5
35	Btu/h	11000	10300	9550	8830	8110	7380	6660
	Watts	565	642	719	797	876	955	1030
	Amps	2.78	3.11	3.44	3.77	4.10	4.44	4.78
	Lb/h	125	122	119	116	113	110	106
40	Btu/h	12200	11400	10600	9810	9020	8220	7430
	Watts	549	631	714	798	882	966	1050
	Amps	2.72	3.07	3.42	3.77	4.13	4.48	4.84
	Lb/h	138	135	132	128	125	121	118
45	Btu/h	13500	12600	11700	10900	10000	9130	8260
	Watts	529	618	706	795	884	974	1060
	Amps	2.64	3.02	3.39	3.76	4.14	4.51	4.89
	Lb/h	152	148	145	141	137	134	130
50	Btu/h	14800	13900	12900	12000	11100	10100	9170
	Watts	507	601	695	789	884	979	1070
	Amps	2.56	2.95	3.35	3.74	4.14	4.54	4.94
	Lb/h	166	163	159	155	151	147	143
55	Btu/h	16200	15200	14200	13200	12200	11200	10200
	Watts	482	581	681	780	880	981	1080
	Amps	2.47	2.88	3.29	3.71	4.13	4.55	4.97
	Lb/h	182	178	173	169	165	161	157

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.368096E+03	2.793399E+02	1.462035E+00	6.715357E+01
C2	2.467006E+02	-7.094107E+00	-2.848422E-02	1.814871E+00
C3	-2.193849E+01	3.851405E+00	1.759153E-02	-1.347106E-01
C4	1.446388E+00	-6.928258E-02	-2.652674E-04	1.581943E-02
C5	-1.438410E+00	1.119353E-01	4.429367E-04	-5.091265E-03
C6	3.109402E-03	-1.326228E-03	-3.589844E-06	1.342753E-04
C7	6.630982E-04	4.292546E-05	5.512636E-07	2.775802E-06
C8	-6.771632E-04	1.474654E-05	-2.815268E-07	-6.950841E-06
C9	1.853628E-04	-2.092696E-05	3.882460E-10	3.150557E-06
C10	-3.471668E-05	1.332969E-05	3.549998E-08	-1.367772E-06

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature